Classwork 80 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Classifying Quadrilaterals/Properties of Quadrilaterals Period \_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **CRS** | PPF 701 (76) – Draw conclusions based on a set of conclusions |
| **Objective** | 12.1 PPF701 Classify quadrilaterals  12.2 PPF701 Know and use properties of rhombuses, kites and trapezoids |

Quadrilaterals- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_figure

Sum of the interior of a quadrilateral = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| Example 1: Find the measurement for angles F, G, and H. | You Try! Find the measurement for angles M and K. |
| Example 2:  Which of the following have all sides congruent?   1. Square 2. Rectangle 3. Rhombus 4. I 5. I and II only 6. I and III only 7. None of the above 8. All of the above | You Try!  Which of the following parallelograms have congruent diagonals?   1. Square 2. Rectangle 3. Rhombus 4. I only 5. I and II only 6. I and III only 7. None of the above 8. All of the above |
| Example 3: If one diagonal of a rhombus is 30 cm and the other is 16 cm, how long is each side of the rhombus?  Find the perimeter of the rhombus. | Example 4: If one diagonal of a square is 16 inches, find the length of one side of square?  Find the perimeter of the square. |

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| 1. Find the measurements of angle B, C, and D. | 1. Find the measurements of angle J and K. |
| 1. Find the measurements of angle B, C, and D. | 1. Find the measurements of angle E and T. |
| 1. Which of the following quadrilaterals have diagonals that are perpendicular? 2. Parallelogram 3. Rhombus 4. Square 5. Kite 6. I 7. II and III only 8. II, III, and IV 9. II and IV only 10. All of the above | 1. Which of the following quadrilateral is a parallelogram? 2. Rhombus 3. Square 4. Rectangle 5. Trapezoid 6. I 7. II and III 8. I and III 9. I, II, and III 10. All of above |
| 1. If one diagonal of a rhombus is 18 inches and the other is 80 inches, how long is each side of the rhombus?   Find the perimeter of the rhombus. | 1. If one diagonal of a rhombus is 6 inches and the other is 8 inches, how long is each side of the rhombus?   Find the perimeter of the rhombus. |
| 1. The diagonal of a square is 12 cm. Find the length of one side of the square and the perimeter of the entire square. | 1. The diagonal of a square is 20 cm. Find the length of one side of the square and the perimeter of the entire square. |

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| 1. Find the lengths of the kite and find the perimeter. | 1. Find the lengths of the kite and find the perimeter. |
| 1. Find the value of x for the parallelogram below. | 1. Find the value of x. |
| 1. Find the measurement of angle B, C, and D. | 1. Find the measurement of angle W and T. |
| 1. Tell if the statement is always true, sometimes true, or never true. | 1. Find the measurement of angle E and S. |
| 1. Find the measurement of angle Q. | 1. Find the measurement of angle Y. |
| 1. Find the measurement of angle S. | 1. Find the measurement of angle X. |
| 1. Identify what quadrilateral is given. | 1. Identify what quadrilateral is given. |